1st and Final Bill

M. A. R. 57 (Rule 116)
Measurement Book

No. B 466415

Reference to last Measurement 8

erial No. .....

~~ame of Work~~ Sri. Krishna. S ..... From..... To.....

ame of Contractor of nature of Agency ..... Sri. Krishna. S .....

ate of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Name of work :— Construction of Compound wall and other work to DWCC in ward no. 1 of Yelahanka Sub division						
	Estimated Cost :— 7.50 lakhs , Sob Code :- 001-19-000032						
	Tender Amount :— 6,23,227.00 Rs						
	H/A :— P-3298 14th Finance Commission works - SWM works						
	T/S :— EE/YNK.D/T.S/23/2018-19 Dated: 07-02-2019						
	A/S :— EE/YNK.D/A.S/22/2018-19 Dated: 07-02-2019						
	Work Order :— EE(YNK.D) E-PMT-01/WO/67/2019-20. Dated 15/7/19						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(1)	Providing and fixing of Sliding windows made of Galvanized steel (Base steel as per IS 513, D quality, galvanized as per IS 277 with zinc of 120 GSM). the factory made Section should be Powder coated with Pure Polyester Powder upto 50-60 Microns thick with total coated thickness of 0.89 mm for outer frame and 0.58 mm thickness for Sliding Shutter Section the outer frame size for two tracks with grill provision is 90mm x 50mm and without grill provision is of ~~75~~ mm x 50 mm the window Shutter Section is of 58 mm x 36 mm. The outer Frame should have two integrated guide tracks of 12mm width and 24 mm deep for provision to slide the Shutter/Sash frame and facilitate with a water drain outlet thick Plain float glass of reputed make and fixed with EPDM weathering Seal. Shutter - the Section are to be cut to						

M. A. R. 57 (Rule 116)
Measurement Book

No. B

466416

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Length meter joined with using anchor fasteners Silicon Sealant applied at the outer frame corners the cost is exclusive of conveyance of all materials accessories labour charges and erection at site with complete finished item of work. Page no 305 Item number 38.37 SR 2018-19						
	Side grill and front gate ①	①	11.21	0.9	—	10.08	Sq M
	②	②	2.1	1.8	—	3.78	Sq M
	③	③	3.5	3.85	—	13.47	Sq M
	Triangular Portion ② A.E.E $A = \frac{h_b b}{2} = \frac{0.30 \times 3.85}{2}$				-	0.57	Sq M

MEASUREMENT

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement No. 8
					total =	27.908 Sqm	
					Qty limited to	27.45 Sqm	
	27.45 Sqm @ Rs 3100/Sqm					Rs	85095.00
	② Fabrication Supplying and erecting M.S tubular truss of span upto 10m bottom and top member is provided with 50x50x6 mm double equale angles, welded back to back and in between top and bottom line in areas of mid section is provided with 50x50x6mm equal Single angle for vertical and Inclined members and at supporting ends 40x40x5mm Single angle is provided all the members are welded together with 6mm gusset plate as per drawing the ender truss is anchored in R.C.C column by						

M. A. R. 57 (Rule 116)
Measurement Book

No. B

166417

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	using 4 nos of MS anchor bolts at each support with 10mm thick base plate and shoe plate. The work includes cutting, straightening, facing in position of MS angle and welding wherever necessary and applying one coat red oxide primer coat to all the members including cost of all materials, labour charges and hire charges of machineries for cutting welding grinding and erection equipments with all lead and lift transportation etc, complete as per specification Rate no 43/INo.7.29/PWD SR 2018-19.						
	@ ~~for Truss~~ 13.18 Kgs/M	69	11.50	—	—	1364.13 Kgs	

A.E.E

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	b) 9.42 Kg/M	5	4.5	-	-	211.95 Kgs	
	c) 9.42 Kg/M	1	8.6	-	-	81.012 Kgs	
	d) for Columns 12.12 Kgs/M	4	3.8	-	-	184.22 Kgs	
	e) Angles 4.42 Kgs/M	2	11.50	-	-	101.82 Kgs	
		13	0.9	-	-	51.71 Kgs	
		5	3	-	-	66.30 Kgs	
		1	4.5	-	-	19.89 Kgs	
						2081.03 Kgs	
		(Qty limited to 2080 Kg) Total					
		2080 Kgs @ Rs 103/Kg				Rs 214240.00	

A.E.E

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

12/03/2020

③ Providing trapezoidal Profiled sheet Roofing and Installing of Pre Painted Galvalume iron trapezoidal Profiled sheet of approved Make 1060mm width (1000mm Cover width) 28-30mm Crest Height with Cast distener @ 2000mm c/c with 2 ribs at the

M. A. R. 57 (Rule 116)
Measurement Book

No. B

166418

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Centre for Stiffening. the total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.04mm tolerance zinc - Alu Alloy coating AZ 150 gsm as pe ASTM 1397/A755-550 Mpa Steel grade 5-7 Microns Epoxy Primer on both side of the sheet and Polyster top coat 20-22 Microns using Self drilling /Self tapping Screws of 25mm length to be fixed over the Existing Purlins rafters channel and trusses No. 300/ Item No. 38.30 PWD SR 2018-19						
		1 T	11.50	4.90	-	56.75	Sqm

A.E.E

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
					total =	56.75 Sqm	
					Qty limited to	= 50.60 Sqm	
	50.60 Sqm @ Rs 720/Sqm ——— Rs 36432-00						
(4)	Supply and delivery at site brand new Submersible Pumpset Suitable for bore well of 150mm dia and having declared duty Condition as detailed below and Satisfying Performance characteristics for the Pump and motor as declared by bureau of Indian Standard the Pump should Confirm to IS:-8034-1976 (with all its latest amendments) and should bear the ISI Mark 12.5 HP 20 Stage (CRI Pumps) SR 2013-14 Page xxxx011 Sl no 23)						

M. A. R. 57 (Rule 116)
Measurement Book

No. B

466419

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1 A.E.E	–	–	–	1 No, Set	
				1 Set @ Rs 60,000/Set		—	Rs 60000.00
	(5) Supply and Delivery of Galvanized Mild Steel Heavy class (C-class) Conforming to IS 1239-1979 Part-I/1979 with lastest amendments with ISI mark Core end fitted with ISI mark heavy duty collar and other end fitted with Protective Cover) 50 mm dia.						
		1 49 A.E.E	6	–	–	294 Mtrs	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
					Total =	294 mtr	
					Qty limited to 290 mtr		
		290 mtr	@ Rs	450/mtr		Rs 130500.00	
	⑥ Submersible Cable: Supply and Delivery of brand new best make P.V.C Insulated Cable of flat 3 core (Sheathed) of nominal cross sectional area conforming to IS 694-1997 with latest amendment (as per SPD) 4 Sq mm						
	A.E.E	590	—	—		590 mtr	
						590 mtr	
		590 mtr	@ Rs	80/mtr	= Rs	47200.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

466420

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(7)	50mm dia 9Z Collar Heavy duty	50	–	–	–	50 Nos	
						50 Nos @ Rs 140/No	7000.00
(8)	Meter and Panel Board: Supply and Delivery of Meter and Panel Board: Meter Board unit one number of M.S Box of size 300 x 120 mm size fabricated out of 2mm thick sheet metal with sealable door arrangement for Mounting the CTs (if any) Automatic 3 phase dia 4 wire energy meter and Cable box complete. A transparent glass piece should be Provided where the energy meter reading could be read						

A.E.E

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Panel Board: one number of Cubicle type of control Panel board to operate on 50c/400/400V	1	—	—	—	1 No	
		1 No @ Rs 7000/No				— Rs 7000.00	
(9)	50mm dia G.I.N.R Value	1	—	—	—	1 No	
		1 No @ Rs 300/No				— Rs 300.00	
(10)	Erection and Commissioning of work of Rumpsed Enclosing aligning and balancing with all necessary erection & materials and labour Including Supply and erection of two pair of supporting clamps one borewell Cap Cable clips and washer tight gland Cable Protection, bolts nuts values and gauges etc., all						

A.E.E

M. A. R. 57 (Rule 116)
Measurement Book

No. B 166421

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	job including fixing Sluice valve, non return valve etc, and connecting delivery side of Pumpset to rising Main etc, Complete.						
	A.E.E	—	—	—		1 No's	
(4)	1 No @ Rs 500/NO Providing and Placing on terrace. Polyethylene water Storage tanks with Manhole Lid and Suitable locking arrangements Making holes of Suitable diameter for Inlet, outlet and over flow pipes including cost of all Materials, labour, transport charges, HOM of equipments and testing Complete as per Specifications (for 1000 litre capacity) Specifications					———	500.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		—	—	—		1 No	
		1 No @ Rs	6000/no	—		Rs 6000.00	
(12)	Providing and fixing Chlorinated Poly Vinyl Chloride (CPVC) Pipes Conforming to IS 15778, having thermal Stability for hot and cold water Supply including all CPVC Plain and brass threaded fittings including fixing the Pipe with clamps at 1.00 mts spacing this includes jointing of Pipes and fittings with one Step CPVC Solvent Cement and testing of joints Complete. (Internal work Exposed on wall) — 20mm nominal OD Pipes. (P. No. 98 I. No. 13.85.2 of KPWD S.R 2018-19)						
	a) 20mm nominal OD Pipe.						

A.E.E

M. A. R. 57 (Rule 116)
Measurement Book

No. B 466422

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	5.5	—	—	5.5	
		1	4	—	—	4	
						10.5 mtrs.	
						Qty limited to 10.00 mtrs.	
	B) 25mm nominal OD pipe	1	10 mtrs @ Rs 130/mtr			— Rs 1300.00	
			10	—	—	10.00 mtrs	
(13)	Providing and fixing in position brass gate valve with CI with wheel of approved quality (Screwed end) nominal bore including cost of all material labour and t+o.m with all leads complete		10 mtrs @ Rs 190/mtr			— Rs 1900.00	

A.E.E

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	As Per Specifications. Page No 93 Item No 13.32, 13.33. 20mm dia nominal bore SR 2018-19						
	A) 20 mm nominal bore	2	—	—	—	2 Nos	
		2 Nos @ Rs 250/each				— Rs	500.00
	B) 25mm nominal bore	2	—	—	—	2 nos	
(14)		2 Nos @ Rs 350/each				— Rs	700.00
	Providing and fixing in position brass stop cock of approved quality nominal bore including cost of all materials labour and 4.6-M with all leads complete as per Specifications Page No-93 Item No 13.26 SR 2018-19						
	A) 20mm nominal bore	2	—	—	—	2 Nos	

A.E.E

M. A. R. 57 (Rule 116)
Measurement Book

No. B

466423

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		2 nos's @ Rs 140/each				——	Rs 280.00
	B) 25mm nominal bore	2	—	—	—	2 nos	
		2 nos @ Rs 140/each				——	Rs 280-00
	(15) Providing and fixing white Vitreous china clay water closet Europe type (Squatting pan) of size 580 mm with footrest, 100mm S & P trap, 10 litre low level P.V.C flushing cistern (all are approved make) with fitting C.I./M.S brackets 32 mm diameter flush P.pe fittings and clamps, overflow arrangements with Specials and 25mm mosquito-proof Coupling of approved design, Painting of fittings and brackets, Cutting and Making good the wall and floor wherever required Including cost of						

A.E.E

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measureme
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Materials labours complete as per Specifications. Specification No-KBS 79 Page No. Item no 12-5 PWD SR 2018-19						
	A.E.E	2	–	–	–	2 nos	
		2 nos @ Rs 5000/nos				———	10000.00
(16)	"Solid Panel P.V.C Door Shutter" Providing and fixing 30mm thick factory made ingrid foam Panelled Door Shutters made from M.S tube of 19 gauge thickness size 19x19mm from styles and 15x15mm for top and bottom rail, covered with heat moulded P.V.C 'C' Channel of 5mm thick sheet and 30x50mm wide to form styles and 5mm thick and 75mm wide P.V.C sheets for top rail lock rail and bottom rail on either side and 5mm thick 20mm wide P.V.C sheet as gap Insert for top rail and						

M. A. R. 57 (Rule 116)
Measurement Book

No. B

466424

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	bottom rail Panelling of 5mm thick P.V.C Sheet fitted in the M.S frame sealed to the styles and rails with 5x30mm P.V.C Sheet beading on either side and joined together with Solvent Cement adhesive etc., Complete as per Manufacturers Specification and direction of Engineer-in charge fixed to frames with 3 nos of 75mm Aluminium hinges Page No. 60/Item No. 983/PWD SR 2018-19						
		2	0.90	2.00	—	3.60 Sqm	
	A.E.E	3.60 Sqm @	Rs 2500/Sqm			—— Rs 9000.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(17) Constructing brick masonry Inspection Chambers 455 x 610 mm and 450 mm depth, (Clear inside dimension) for single pipeline, using table Moulded non-modular bricks of class designation 50 in Cement Mortar 1:5, CI Cover with frame (Light duty) 455 x 610 mm Internal dimensions, total weight of Cover with frame to be not less than 38 Kg (weight of Cover 23 Kg and weight of frame 15 Kg) R.C.C top slab with Cement Concrete 1:2:4 mix 20mm and down size granite metal, foundation Concrete 1:5:10 with stone and down size granite metal inside plastering 12mm thick with Cement mortar 1:3 finish smooth with a floating coat of Cement on walls and bed Concrete Complete as per standard design including Cost of Materials labour charges, curing Complete as per specification						

M. A. R. 57 (Rule 116)
Measurement Book

No. B

466425

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	—	—	—	1 nos	
	A.E.E	@ Rs 5000/no				—	Rs 5000-00
						Total =	623,223.75 Rs
						Add 12 % gst =	74,784
							698,007.75

Certificate: ① work done is satisfactory
② Contractor cleared all the debris from the work spot
③ no departmental issues made by the Contractor.

12-03-2020

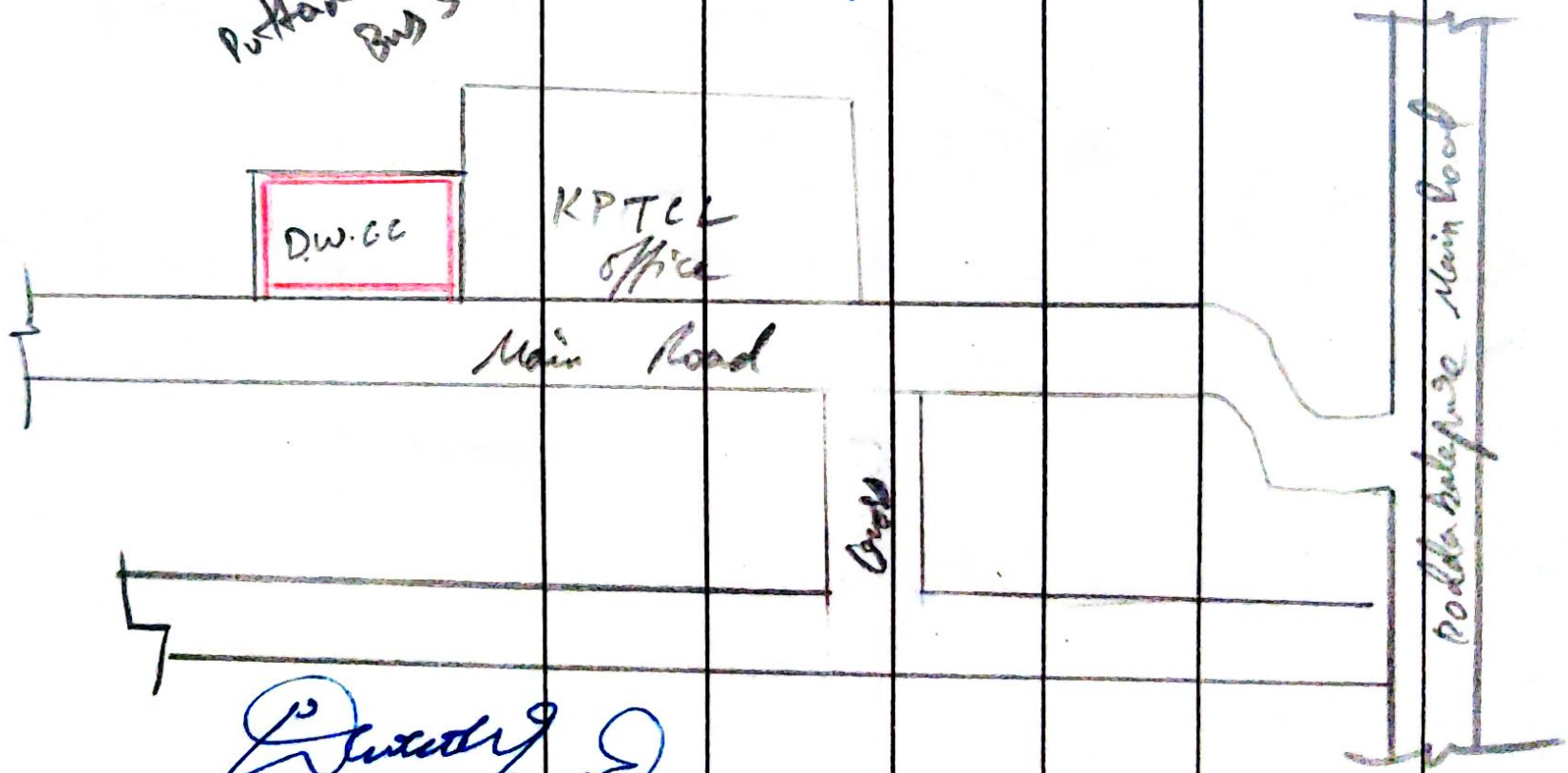
Asst. Executive Engineer
Yelahanka Sub Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

12/3/2020

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

Name of work :- Construction of compound wall and other work to DWCC in ward no-01 of Yelahanka Sub division Puttanahalli Bus stand



12-05-2022